

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report

City: City of Fairfax

Street: Roberts Rd. #12 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6307. The study was done in the North Bound lane on Roberts Rd. using counter #12 Red as shown on attached drawing. The counter was placed 50 ft. from the stop bar. The study began on 12/02/2003 at 12:00 PM and concluded on 12/05/2003 at 09:00 AM, lasting a total of 69 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 6,436 vehicles passed through the location with a peak volume of 227 on 12/04/2003 at 05:00 PM and a minimum volume of 2 on 12/04/2003 at 03:00 AM. The AADT Count for this study was 2,160.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1									
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54
0	831	1724	606	91	34	21	15	7	2

At least half of the vehicles were traveling in the 15 - 19 mph range or a lower speed. The average speed for all classified vehicles was 18 mph with 5.84 percent exceeding the posted speed of 25 mph. The HI-STAR found 2.11 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 15 mph and the 85th percentile was 22.46 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
3256	68	26	6	0	0	1	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 3,324 which represents 99.00 percent of the total classified vehicles. The number of Small Trucks in the study was 26 which represents 0.80 percent of the total classified vehicles. The number of Trucks/Buses in the study was 6 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.00 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 12/04/2003 at 05:00 PM the average headway between the vehicles was

15.79 seconds. The slowest traffic period was on 12/05/2003 at 11:00 AM. During this slowest period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 31 and 74 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 88.89 percent of the time.